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Patent  
Atty. Docket No. GEMS8081.187

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Hurd, Ralph E.  
Serial No. : 10/708,356  
Filing Date : 2/26/2004  
Title : METHOD AND SYSTEM OF MAPPING  
OXYGEN CONCENTRATION ACROSS A  
REGION-OF-INTEREST  
Group Art No. : 2862  
Examining Attorney : Unknown

CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10

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37 CFR 1.8(a)

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INFORMATION DISCLOSURE STATEMENT  
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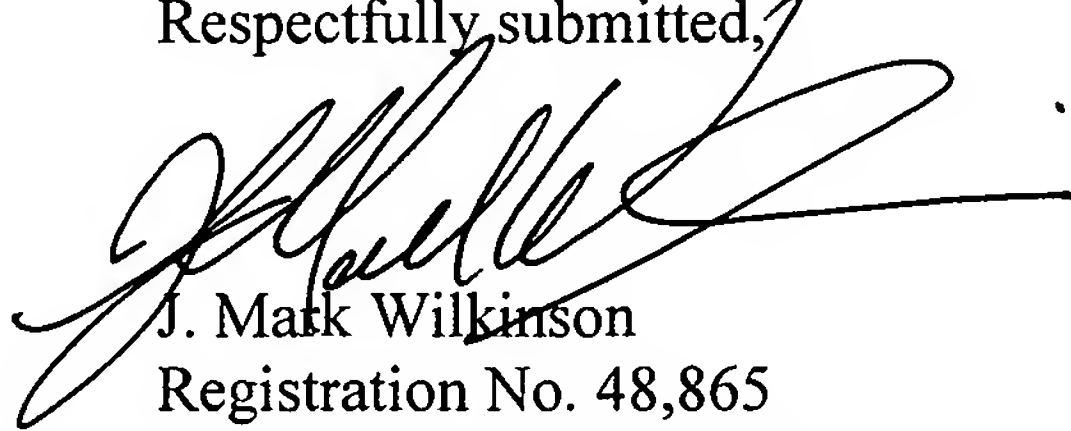
In compliance with Applicant's duty of disclosure as set forth in 37 C.F.R. §1.56, listed on the attached equivalent to Form PTO-1449 are those patents, publications, and other information known to Applicant which may be considered material to the patentability of the claims of the above-captioned application. **One copy of each reference is attached.**

**Inventor: Hurd, Ralph E.**

**S/N: 10/708,356**

Applicant respectfully requests that the documents listed on the attached equivalent to Form PTO-1449 be considered by the Examiner, that the references be made of record in the present application, and that an initialed copy of the duplicate equivalent to Form PTO-1449 be returned to the undersigned in accordance with MPEP 609.

Respectfully submitted,



J. Mark Wilkinson

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Date: 6/1, 2004  
Atty. Docket No.: GEMS8081.187

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				<b>Application Number</b>	10/708,356
				<b>Filing Date</b>	2/26/2004
				<b>First Named Inventor</b>	Hurd, Ralph E.
				<b>Group Art Unit</b>	2862
				<b>Examiner Name</b>	Unknown
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	GEMS8081.187

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KREUTZER ET AL., "1H-nuclear magnetic resonance deoxymyoglobin signal as indicator of intracellular oxygenation in myocardium," <i>Am J Physiol.</i> (1991), p. H2091-97, 0363-6135/91.	
		KREUTZER ET AL., "Observing the Deoxy Hemoglobin Signal in Human Muscle as an Index of Vascular pO <sub>2</sub> ," <i>Proc. Int. Soc. Magn. Reson. Med.</i> 77 (1998).	
		LUKIN ET AL., "Quaternary structure of hemoglobin in solution," <i>PNAS</i> (2003), p. 517-520, vol. 100, no. 2, available at <a href="http://www.pnas.org/cgi/doi/10.1073/pnas.232715799">www.pnas.org/cgi/doi/10.1073/pnas.232715799</a> .	
		MIHAILESCU ET AL., "A signature of the T → R transition in human hemoglobin." <i>PNAS</i> (2001), p. 3773-3777, vol. 98, no. 7, available at <a href="http://www.pnas.org/cgi/doi/10.1073/pnas.071493598">www.pnas.org/cgi/doi/10.1073/pnas.071493598</a> .	
		MOLE ET AL., "Myoglobin desaturation with exercise intensity in human gastrocnemius muscle," <i>Am J Physiol.</i> (1999), p. R173-80, 0363-6119/99.	
		SIMPLACEANU ET AL., "Chain-Selective Isotopic Labeling for NMR Studies of Large Multimeric Proteins: Application to Hemoglobin." <i>Biophysical Journal</i> (2000), p. 1146-1154, Vol. 79(2).	
		TRAN ET AL., "Comparative analysis of NMR and NIRS measurements of intracellular PO <sub>2</sub> in human skeletal muscle." <i>Am J Physiol</i> (1999), p. R1682-1690, 0363-6119/99.	
		TRAN ET AL., "Spatial distribution of deoxymyoglobin in human muscle: an index of local tissue oxygenation." <i>NMR Biomed.</i> (1999;12:26-30), John Wiley & Sons, Ltd.	
		ZHOU ET AL., "Amide Proton Transfer Contrast for Imaging of Brain Tumors," <i>Proc. ISMRM</i> 11 (2003), p. 42.	
		ZHOU ET AL., "Using the amide proton signals of intracellular proteins and peptides to detect pH effects in MRI," <i>Nature Medicine</i> (2003), p. 1085-90, vol. 9, no. 8.	

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